



North American  
Refractories

06327 00

900 Hanna Building  
1422 Euclid Avenue  
Cleveland, Ohio 44115  
216/621-5200

NORTH AMERICAN REFRACTORIES  
PRODUCT SAFETY DATA SHEET

MANUFACTURER

NORTH AMERICAN REFRACTORIES

MSDS # 5020-00

Vendor:

Emergency Phone Number

East (814) 236-3890

West (415) 432-4741

Date Issued: 10/24/85

Date Revised: 10/11/85

Product Type: Refractory Plastic Or Ram Material

Trade Name: NARPHOS 85P

\*\*\*\*\* SECTION I - PRODUCT IDENTIFICATION \*\*\*\*\*

Chemical Name: Acid Bonded High-Alumina Plastic

Chemical Family: Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub>

\*\*\*\*\* SECTION II - CHEMICAL COMPOSITION \*\*\*\*\*

Hazardous Ingredients:	CAS Number:	PCT:
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Crystalline Silica	N/A	less than 2%
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Other Ingredients:	CAS Number:	PCT:
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Alumina Silicate	66402-68-4	more than 90%
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Phosphate Binder	7722-76-1	less than 10%
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Hydrous Alumina Silicate	1332-58-7	less than 10%
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\*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

Appearance and Odor: Gray, granular, wet mixture, odorless

\*\*\*\*\* SECTION IV - FIRE AND EXPLOSION HAZARD \*\*\*\*\*

Flammability: This product is non-flammable and will not support combustion.

\*\*\*\*\* SECTION V - HEALTH HAZARD \*\*\*\*\*

Threshold Limit Value: For respirable dust: 10 divided by (%Qtz. + 2)  
expressed as mg/m<sup>3</sup>

Phosphoric Acid Mist 1 mg/m<sup>3</sup>

SIA 30 A

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Effects of Overexposure: Chronic exposure to dust could contribute to silicosis.

Phosphate binder may irritate skin and eyes.

Emergency and First Aid Data:

Skin: Wash thoroughly with soap and water.

Eyes: Flush with water for 15 minutes and get medical help.

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SECTION VI - REACTIVITY DATA

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Stability and Reactivity: This product is stable and non-reactive.

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SECTION VII - SPILL AND LEAK PROCEDURES

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Steps to be Taken in Case of a Spill:

Avoid generating dust exposure during cleanup.

Waste Disposal Method: Dispose of material according to local, state or federal regulations and as final used condition of the product dictates.

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SECTION VIII - INDUSTRIAL HYGIENE INFORMATION \*\*\*\*\*

Ventilation: Local exhaust recommended to maintain exposures below TLV.

Respiratory Protection: Approved dust type for exposures above TLV.

Protective Clothing and/or Barrier Creams:

Recommended

Protective Gloves: Impervious gloves recommended.

Eye Protection: Recommended

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SECTION IX - SPECIAL PRECAUTIONS

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Special Precautions: Avoid dust generation.

Precautionary Labeling: Product contains crystalline silica and phosphoric acid or phosphate binder and aluminum sulfate.

WARNING: Prolonged inhalation of product dust may cause delayed lung injury (silicosis)  
Contact may cause irritation to eyes and skin.